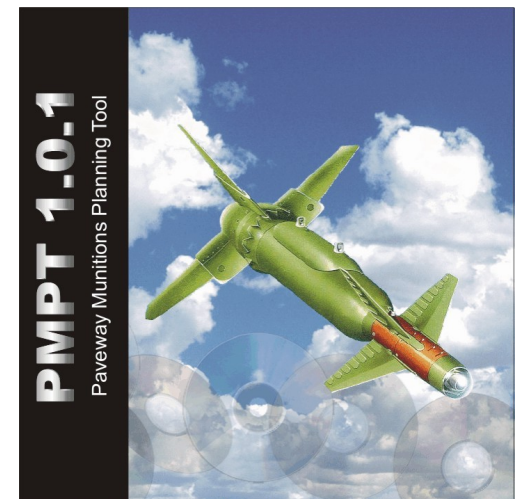




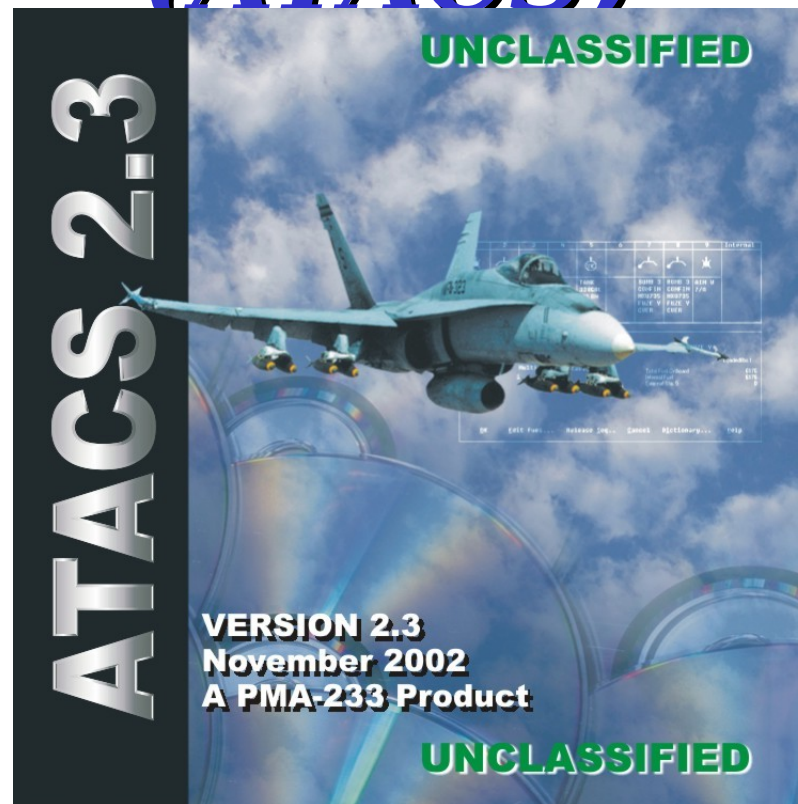
PMA-233 Naval Mission Planning Program Office



MPUC 2003



Automated TACMAN Supplement (ATACS)





ATACS Description

- Allows F/A-18A/B/C/D aircrew to quickly perform mandatory pre-flight planning associated with ordnance
 - Reduces time to plan from 2 hrs (using TACMAN) to 5 min.
 - Checks plan against current flight clearances and restrictions, alerts pilot to potential violations in the following areas:
 - Authorized store/weapon configurations, aircraft loadout
 - Takeoff/launch, carriage, landing/trap conditions
 - Aircraft safe escape (fuze arming, minimum altitudes)
 - Provides all applicable warnings, notes and cautions
 - Calculates data required to ensure successful weapon function
- PC-based application (Win 95/98/NT/2000)
- Interim Tool



ATACS Version 2.3

Scope

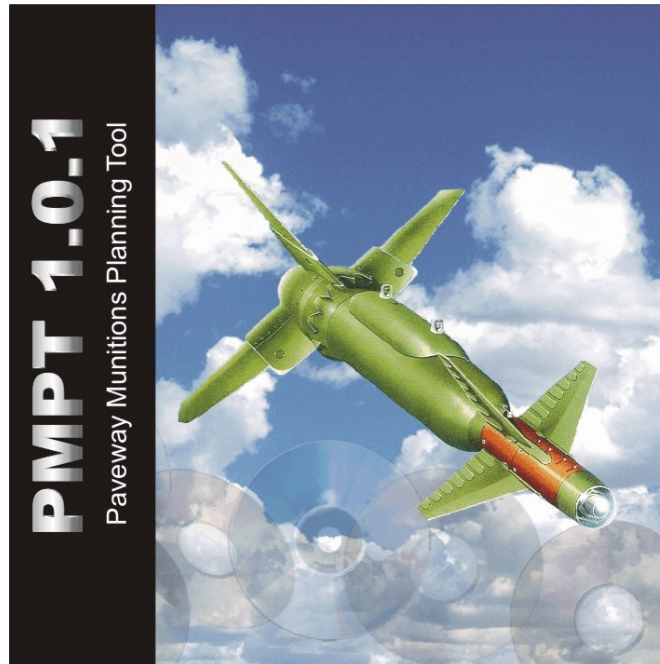
- New functionality:
 - F/A-18A+ and F/A-18D(RC)
 - Added support for OFP/SCS 15C+
 - Incorporated Cease Fire table for gun projectiles interactively into Fuzing and Delivery
- New stores:
 - ATARS Pod – AIM-120C-5 and -6
 - LATR Pods – FMU-139/FZU-48 for GBUs
 - PDU-5 Leaflet pod – MK-84 Mod 1 and Mod 2 bodies
 - AGM-84K – New expendables
- STR corrections

ATACS Summary

- ATACS will be replaced by NAWC in 3rd Qtr FY03
- Product broke new ground:
 - Shifted “responsibility” for accurate safety-of-flight calculations from the pilot to the software product.
 - First product to use NAVAIR safety-of-flight data from a multitude of competencies, together with the VX-9 checklist to produce end results – flushed out many errors and inconsistencies.
- Proven history of stable processes
- Proven history of Fleet satisfaction & trust



Paveway Munitions Planning Tool (PMPT)





Product Description

- PMPT provides unit level aircrew with an automated means to plan and analyze GBU-10, 12, 16, and 24 deliveries using a one-screen input interface.
- Incorporates GOTS products:
 - Guided Weapon Trajectory Software (GWTS) used to calculate weapon flyouts/trajectories and Launch Acceptance Regions
 - JMEM A/S PC Effects dll used for penetration calculations
- Windows application (95, 98, NT 4.0, 2000)



PMPT Schedule

- Version 1.0.1 released 07 Nov 01
- No further releases under PMA-233/201
 - JTCG/ME Air-to-Surface Group
 - PMPT released with JAWS 2.3 in July
- Replaced by NAWC, 3rd Qtr FY 03
 - Applies to F/A-18 A-D only



Summary

- PMPT **EXTREMELY** well received by the Fleet.
- JMEM users love it.

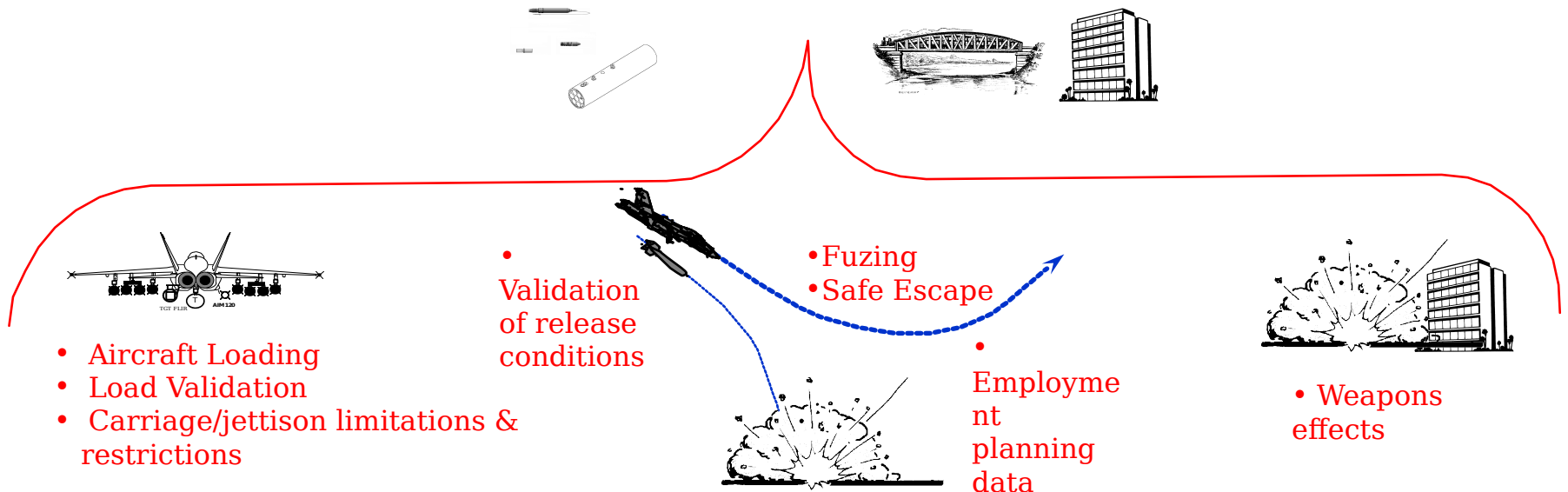
Naval Aircraft Weaponneering Components (NAWC)



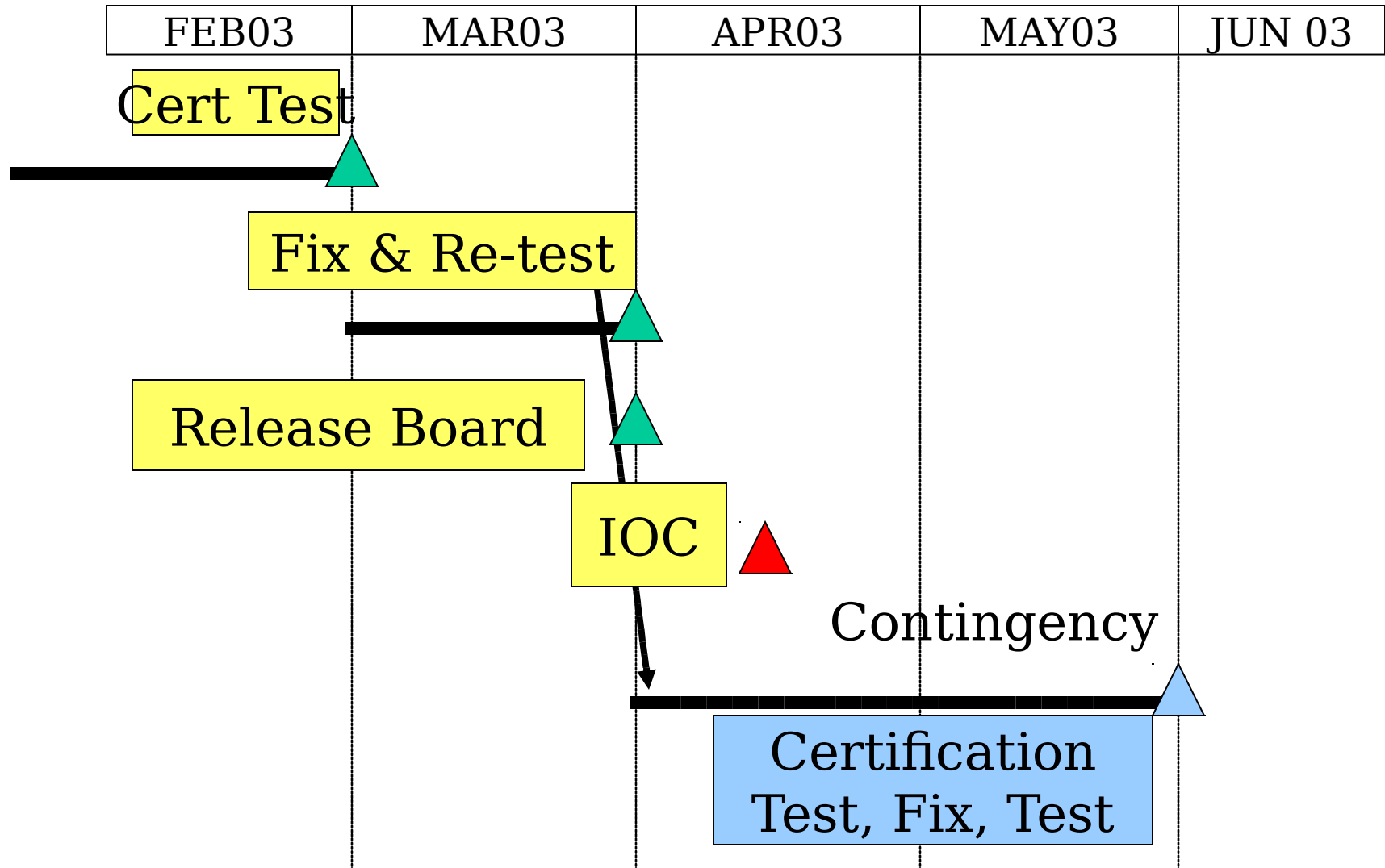
Product Description

Windows 2000 based application that allows aircrew to quickly determine all weapon/delivery combinations that will yield desired target damage, comply with mission constraints, and are authorized/safe. Encompasses capability equivalent to ATACS, PMPT, TA.R.G.E.T., SLIC & JMEM Air-to-Surface programs.

SSPD Optimization /Weaponneering Decision Aid



NAWC Ver 1.0 Schedule





OAG Priority

- Ranked #1 – January 2002 MPUC
 - Develop an objective area analysis planning tool to include automated, comprehensive weaponeering components support for all platforms.
- Ranked #7 – February 2001 MPUC
- Ranked #7 - February 2000 MPUC



Funding Status

- Awaiting \$3.8M BTR in FY03 to avoid program shutdown
- Funding stabilizes FY04 – FY09



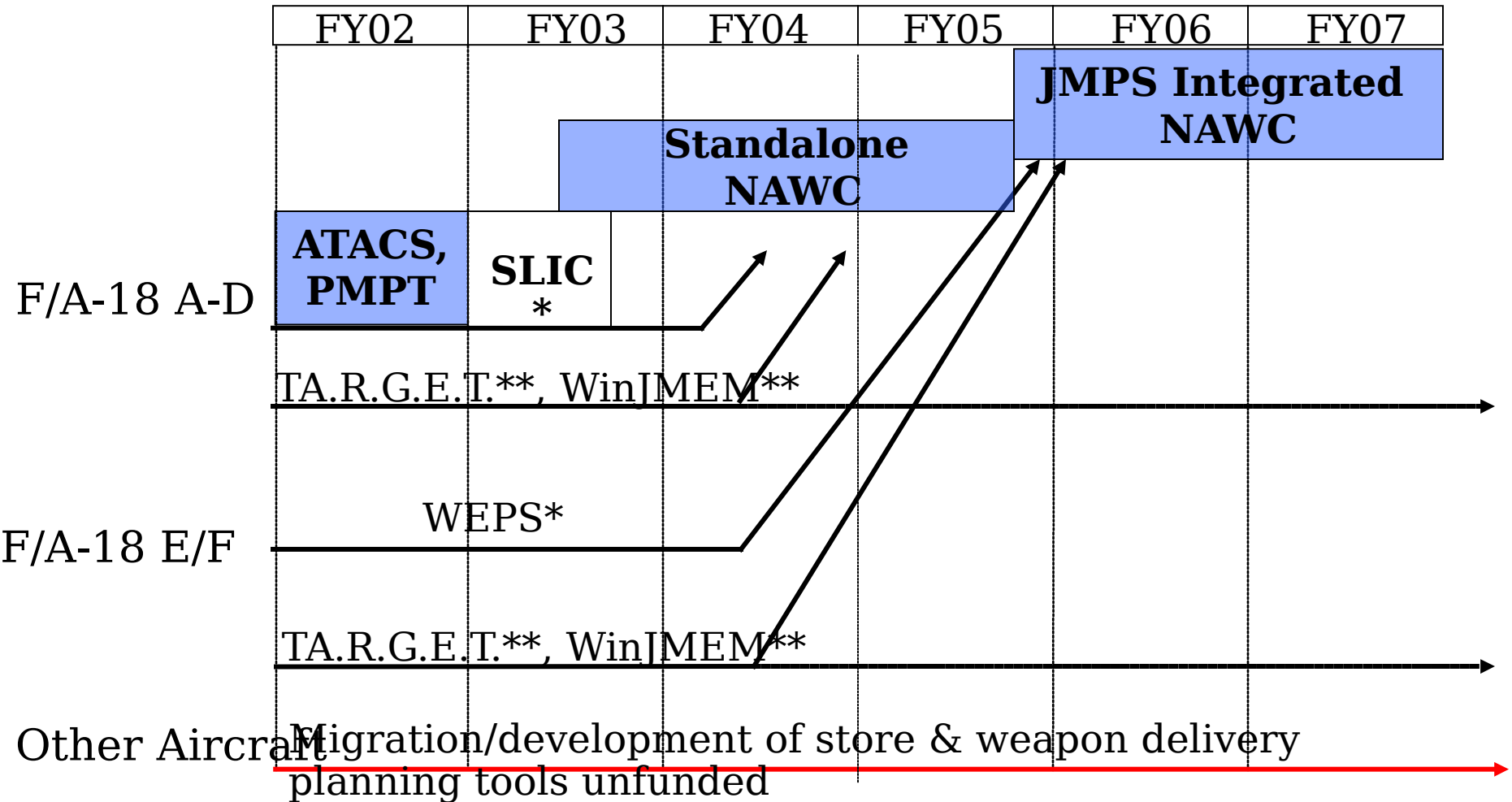
Customer Satisfaction

- “Performance and feature comparisons shall be conducted between NAWC and ATACS before ATACS is removed from operational use.”
- SFWSP, SFWSL, MAWTS-1, NSAWC, VX-9, AWL to serve as performance/feature monitors
 - Review NAWC during certification test phase
 - Seeking commitment to review NAWC

Questions?

Backups

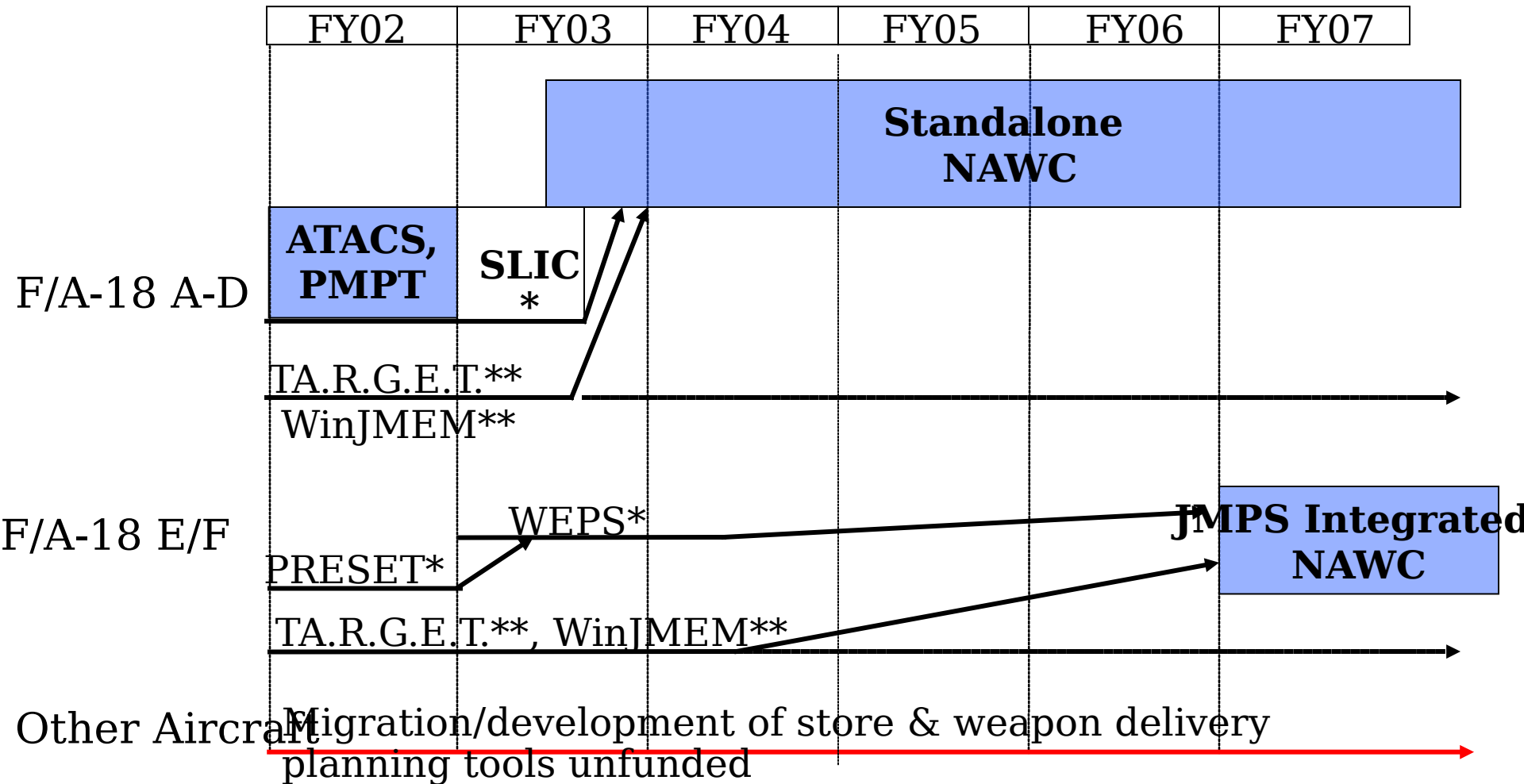
Optimal Roadmap



* Developed and maintained by NAVAIR competencies (migration requires rewrite)

** Developed and maintained outside of NAVAIR; multi-aircraft applications

Alternative Roadmap



* Developed and maintained by NAVAIR competencies (migration requires rewrite)

** Developed and maintained outside of NAVAIR; multi-aircraft applications